

IN THE CLAIMS

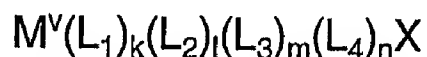
This listing of claims replaces all prior versions, and listings, in this application.

1. (Currently Amended) A one step process for the preparation of a metal-organic compound, comprising at least one imine ligand, characterized in that an imine ligand according to formula 1 or the HA adduct thereof, wherein HA represents an acid, of which H represents its proton and A its conjugate base, is contacted with a metal-organic reagent of formula 2 in the presence of 1 ~~,respectively~~ or 2 equivalents of a base, with



as formula 1,

wherein Y is selected from a substituted carbon, nitrogen, or phosphorous atom and R represents a substituent, and with



as formula 2,

wherein: M represents a group 4 or group 5 metal ion

V represents the valency of the metal ion, being 3, 4 or 5

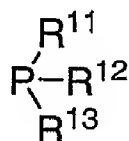
L₁, L₂, L₃, and L₄ represent a ligand or a group 17 halogen atom on M and may be equal or different, at least one of the ligands L is chosen from cyclopentadienyl, C₁-C₂₀ hydrocarbyl (~~optionally containing hetero- or group 17 halogen atoms~~), substituted cyclopentadienyls, indenyl, C₁-C₂₀ hydrocarbyl substituted indenyls, and halogen substituted C₁-C₂₀ hydrocarbyl substituted indenyls

X represents a group 17-halogen atom,

k, l, m, n = 0, 1, 2, 3, 4 with k+l+m+n+1=V.

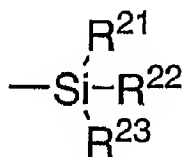
2. (Currently Amended) A process according to claim 1 wherein R represents a hydrogen atom and wherein Y is selected from the group consisting of

i) a phosphorus substituent defined by the formula:



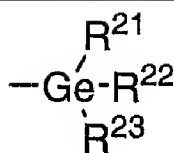
(formula 3)

wherein each R^{1j} , with $j = 1-3$ is independently selected from the group consisting of a hydrogen atom, a halogen atom, a C_{1-8} alkoxy radical, a C_{6-10} aryl or aryloxy radical, an amido radical, or a C_{1-20} hydrocarbyl radical unsubstituted or substituted by a halogen atom, a C_{1-8} alkoxy radical, a C_{6-10} aryl or aryloxy radical, an amido radical, a silyl radical of the formula:



(formula 4)

or and a germanyl radical of the formula:

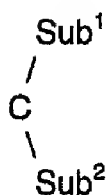


(formula 5)

wherein R^{2j} is independently selected from the group consisting of hydrogen, a C_{1-8} alkyl, a or alkoxy radical, a C_{6-10} aryl or and aryloxy radicals,

each substituent R^{1j} or R^{2j} may be linked with another R^1 or R^2 to form a ring system,

ii) a substituent defined by formula 6:



(formula 6)

wherein each of Sub¹ and Sub² is independently selected from the group consisting of hydrocarbyl radicals having from 1 to 30 carbon atoms; silyl radicals, ~~(substituted)~~ amido radicals, substituted amido radicals, and ~~(substituted)~~ phosphido radicals, and substituted phosphido radicals; and

wherein Sub¹ and Sub² may be linked with each other to form a ring system.

3. (Previously Presented) A process according to claim 1, wherein the base is a dialkylamine, a trialkylamine, a monoarylamine, diarylamine or a triarylamine.

4. (Previously Presented) A process according to claim 1, wherein the base is triethylamine, pyridine, tripropylamine, tributylamine, 1, 4-diaza-bicyclo [2.2. 2] octane, pyrrolidine or piperidine.

5. (Currently Amended) A process according to claim 1, wherein the base is a carboxylate, a fluoride, a hydroxide, a cyanide, an amide, a carbonate of Li, Na, K, Rb, Cs, or an ammonium salt or a group 2 metal salt of Mg, Ca, or Ba thereof, an alkali metal ~~(Li, Na, K, Rb, Cs)~~ phosphate, or phosphate ester, or their alkoxides or phenoxides, thallium hydroxide, alkylammonium hydroxides or fluorides, or alkali metals, hydrides or carbonates of Li, Na, K, Rb, Cs or group 2 hydrides.

6. (Original) A process according to claim 5, wherein the alkali metal is chosen from Li, Na, or K.

7. (Previously Presented) A process according to claim 1, wherein the base is a group 1, 2, 12,13 hydrocarbanion.
8. (Original) A process according to claim 7, wherein the base is an organomagnesium- or an organolithium compound.
9. (Currently Amended) A process according to claim 1, carried out in the presence of 3 ~~respectively~~ or 4 equivalents of an organolithium- or an organomagnesium compound.
10. (Previously Presented) A process according to claim 1 wherein the reaction is carried out in an aprotic solvent.
11. (Original) A process according to claim 10, wherein the solvent is the base.
12. (Previously Presented) Process for the preparation of a polyolefin by making a metal-organic compound according to the process of claim 1, wherein the base is an olefin polymerisation compatible base, which metal-organic compound is activated anywhere in, or before a polymerisation reactor.
13. (Original) Process according to any of claims 12, wherein the metal-organic compound is formed used without purification.
14. (Previously Presented) Process according to claim 12, wherein the metal-organic compound is formed in the polymerisation equipment.

15. (Original) Process according to claim 14, in the presence of between 5 and 10 equivalents of the imine ligand according to formula 1.

16. (new) A process according to claim 1, wherein said C₁-C₂₀ hydrocarbyl contains hetero- or group 17 halogen atoms.

17. (new) A process according to claim 5, wherein said an alkali metal phosphate is selected from the group consisting of Li, Na, K, Rb, and Cs.